BASELINE Product line

TurretCam

Wired AI-powered IP security camera
with IR illumination, True WDR, microphone,
and PoE/12 V. For outdoor and indoor use.

IR · IP65 · IK08 · True WDR · PoE · SD



ONVIF

NDAA Compliant

Product versions

TurretCam (5 Mp/2.8 mm)
- 5 MP
- ƒ/2.8 mm (fixed)
- up to 2880 × 1620 px
- 25 fps (3K UHD)
- 100°–110°

TurretCam (8 Mp/2.8 mm)
- 8 MP
- ƒ/2.8 mm (fixed)
- up to 3840 × 2160 px
- 20 fps (4K UHD)
- 100°–110°

TurretCam (5 Mp/4 mm)
- 5 MP
- ƒ/4 mm (fixed)
- up to 2880 × 1620 px
- 25 fps (3K UHD)
- 75°–85°

TurretCam (8 Mp/4 mm)
- 8 MP
- ƒ/4 mm (fixed)
- up to 3840 × 2160 px
- 20 fps (4K UHD)
- 75°–85°

Intelligence and privacy built in

TurretCam combines top-notch video streaming, AI-based object recognition, and best-in-class privacy control. The camera delivers high-definition visuals and ultra-fast archive navigation powered by the proprietary JetSparrow technology. Built-in AI saves time and storage by ensuring the camera records and notifies users of only selected events. Footage is instantly available via mobile and desktop Ajax apps or local VMS, strictly within the limits end users define. As part of the Ajax system, the camera works in sync with intrusion protection, fire safety, and automation devices — all managed effortlessly within a single interface.

Uncompromising security and privacy

- Passwordless camera authentication via mutual TLS (mTLS) handshake
- TLS-encrypted video streams
- User-controlled access to video content
- Secure video export with digital signature verification
- Multi-tiered account protection: passcodes, biometrics, and two-factor authentication
- Session control for additional account security
- NDAA-compliant components and protocols

Seamless user experience

- AI-powered object recognition: people, pets, and vehicles
- High-resolution visual verification of alarms via video scenarios
- Instant transition from notifications to on-site video recordings
- Camera synchronization with security system modes
- Real-time monitoring with a customizable video wall
- True WDR (Wide Dynamic Range) for better image quality

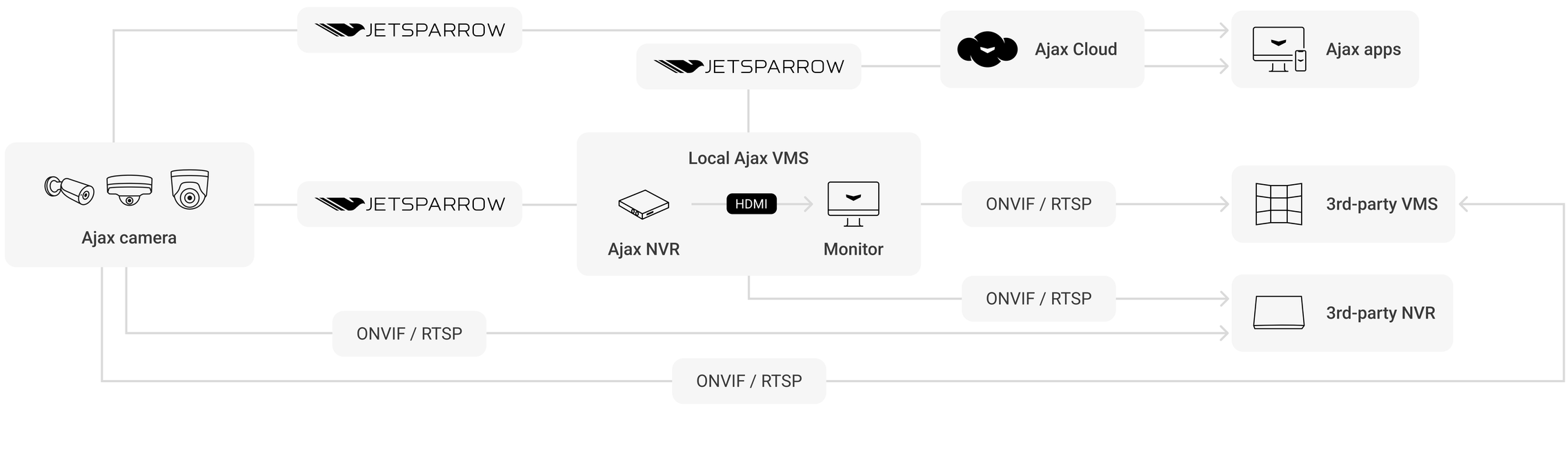
Smooth archive navigation

- Proprietary JetSparrow technology for instant, secure video streaming and smooth archive navigation
- Fast archive navigation using event timeline, calendar view, and search filters
- Dual streams for instant preview and optimized bandwidth usage
- Quick video clip export in just a few taps

Easy installation and maintenance

- Adding to an Ajax system via QR code
- Remote control and configuration via Ajax apps
- Support for ONVIF/RTSP authorization[1]
- Motion detection zone configuration via Ajax mobile and desktop apps
- Real-time system health monitoring with automatic state checks





TurretCam cameras can operate without an Ajax NVR. In this case, video footage is stored locally on a microSD card, if one is installed.

DORI distance

Version	Detection	Observation	Recognition	Identification
TurretCam (5 Mp/2.8 mm)	65 m (213 ft)	26 m (85 ft)	13 m (42 ft)	6.5 m (21 ft)
TurretCam (5 Mp/4 mm)	86 m (282 ft)	34.4 m (112 ft)	17.2 m (56 ft)	8.6 m (28 ft)
TurretCam (8 Mp/2.8 mm)	90 m (295 ft)	36 m (118 ft)	18 m (59 ft)	9 m (29 ft)
TurretCam (8 Mp/4 mm)	117.5 m (385 ft)	47 m (154 ft)	23.5 m (77 ft)	11.6 m (38 ft)

Key features

JetSparrow
Proprietary Ajax protocol for fast and secure video transmission

Motion detection
Built-in software to detect motion in the frame

Object recognition with built-in AI
People
Pets
Vehicles

Visual verification of Ajax system alarms

Built-in digital microphone

Activate sirens upon detection feature

Automation scenarios

Alarm verification
Motion detection
AI-powered recognition
Detector alarm
Automation scenarios

Video and optics

Resolution

5 MP version:
up to 2880 × 1620 px
@ 25 fps (3K UHD)

8 MP version:
up to 3840 × 2160 px
@ 20 fps (4K UHD)

Lens

2.8 mm:
100°–110° viewing angle

4 mm:
75°–85° viewing angle

Image processing
True WDR
hardware and software

Video compression
H.265, H.264

Bitrate
100 Mbps full-duplex

Simultaneous live view
Up to 5 channels

Illumination
IR illumination range:
up to 50 m (164 ft)

Video stream
ONVIF[1]
RTSP

Power supply

Power supply unit
12 V⎓ ± 20%, 1 A

Ethernet
10/100 Mbps (RJ-45)

Ethernet port
PoE standard 802.3at/af

Power consumption
up to 8.5 W

Installation

Operating temperature
from −30 °C to +60 °C
from −22 °F to +140 °F

Operating humidity
up to 90%

Enclosure

Dimensions
103 × 98 × 98 mm
4.06" × 3.86" × 3.86"

Weight
475 g
16.8 oz

Colors
black, white

Protection class
IP65
IK08

Compliance with standards

CE
RoHS
NDAA

Complete set

TurretCam
Installation template
Installation kit
Quick start guide

[1] Full support for Profile S, partial support for Profiles T and M.

For detailed information, scan the QR code or follow the link:

ajax.systems/support/devices/turretcam/

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